Data sheet

SIPLUS S7-300 SM 326F DO8 -25...+60°C with conformal coating based on 6ES7326-2BF41-0AB0 . Digital output F-DO $8x\ 24\ V$ DC/2A PM fail-safe digital output Sinking-sourcing up to Category 4 (EN 954-1), SIL 3 (IEC 61508)



Figure similar

Supply voltage		
Rated value (DC)	24 V; 1L+	
Reverse polarity protection	Yes	
Load voltage L+		
• Rated value (DC)	24 V; 2L+, 3L+	
 Reverse polarity protection 	No	
Input current		
from supply voltage 1L+, max.	75 mA	
from load voltage 2L+ (without load), max.	100 mA	
from load voltage 3L+ (without load), max.	100 mA	
from backplane bus 5 V DC, max.	100 mA	
Power loss		
Power loss, typ.	12 W	
Digital outputs		
Number of digital outputs	8	
Short-circuit protection	Yes	

PNAP

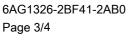
Limitation of inductive shutdown voltage to	L+ (-33 V)
Switching capacity of the outputs	L+ (-33 V)
	5 W
• on lamp load, max.	3 VV
Output voltage	1.74000
• for signal "1", min.	L+ (-1.0 V)
Output current	2.4
● for signal "1" rated value	2 A
 for signal "1" permissible range for 0 to 40 °C, min. 	7 mA
 for signal "1" permissible range for 0 to 40 °C, max. 	2 A; 2 A for horizontal installation, 1 A for vertical installation
 for signal "1" permissible range for 40 to 60 °C, min. 	7 mA
• for signal "1" permissible range for 40 to 60 °C, max.	1 A; for horizontal installation
• for signal "0" residual current, max.	0.5 mA
Switching frequency	
with resistive load, max.	30 Hz
with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	7.5 A
— up to 60 °C, max.	5 A
vertical installation	
— up to 40 °C, max.	5 A
Cable length	
• shielded, max.	200 m; 200 m for SIL 3, AK 6, Cat 4
• unshielded, max.	200 m
anomoteca, max.	
nterrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes; Parameterizable
Diagnoses	
Diagnostic information readable	Yes
Diagnostics indication LED	
Fail-safe operation	Yes
• Group error SF (red)	Yes
Potential separation	
Potential separation digital outputs	
• between the channels	Yes
• between the channels, in groups of	4
• between the channels and backplane bus	Yes



• between the channels and the power supply of the electronics

Yes

Isolation Isolation tested with Standards, approvals, certificates CE mark UL approval Yes; File E239877		
Standards, approvals, certificates CE mark UL approval Yes Yes; File E239877		
CE mark UL approval Yes Yes; File E239877		
CE mark UL approval Yes Yes; File E239877		
DCM (farmanic C TICK)		
RCM (formerly C-TICK) Yes		
KC approval Yes		
EAC (formerly Gost-R) Yes		
Highest safety class achievable in safety mode		
● acc. to EN 954 Cat. 4		
• Performance level according to ISO 13849-1 e		
• SIL acc. to IEC 61508 SIL 3		
Railway application		
● EN 50155 No		
Ambient conditions		
Ambient temperature during operation		
● min25 °C		
• max. 60 °C		
Altitude during operation relating to sea level		
 Installation altitude above sea level, max. 2 000 m 		
• Ambient air temperature-barometric pressure- Tmin Tmax at 1 140 hPa 795 hPa	a (-1 000 m +2 000 m)	
altitude		
Relative humidity		
 With condensation, tested in accordance with IEC 60068-2-38, max. 100 %; RH incl. condensation/frost (no condensation conditions) 	commissioning under	
Resistance		
Use in stationary industrial systems		
— to biologically active substances according to EN 60721-3-3 Yes; Class 3B2 mold, fungus and dry exception of fauna); Class 3B3 on required.		
 to chemically active substances according to EN 60721-3-3 Yes; Class 3C4 (RH < 75 %) incl. salt 52 (severity degree 3); * 	spray acc. to EN 60068-2-	
— to mechanically active substances Yes; Class 3S4 incl. sand, dust, * according to EN 60721-3-3		
Use on ships/at sea		
 to biologically active substances according to EN 60721-3-6 Yes; Class 6B2 mold and fungal spore 6B3 on request 	es (excluding fauna); Class	
 to chemically active substances according to EN 60721-3-6 Yes; Class 6C3 (RH < 75 %) incl. salt 52 (severity degree 3); * 	spray acc. to EN 60068-2-	
— to mechanically active substances Yes; Class 6S3 incl. sand, dust; * according to EN 60721-3-6		



Usage in industrial process technology

- Against chemically active substances acc. to EN 60654-4

- Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04

Yes; Class 3 (excluding trichlorethylene)

Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)

Remark

- Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04

* The supplied plug covers must remain in place over the unused interfaces during operation!

Connection method

required front connector 40-pin

Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm

Weights

465 g Weight, approx.

10/13/2020 last modified:

